



DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES
Minerals & Mining Program - Oil & Gas Section
2050 West Main, Suite #1, Rapid City, SD 57702-2493
Telephone: 605-394-2229, FAX: 605-394-5317

FORM 2

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DEPT OF ENVIRONMENT & NATURAL
RESOURCES - RCHO

APPLICATION FOR PERMIT TO DRILL

Type of work: <input type="checkbox"/> Drill New Well <input type="checkbox"/> Reenter Well <input type="checkbox"/> Drill Directional Well <input checked="" type="checkbox"/> Other <u>Horizontal Re-entry</u>		Type of well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Injection <input type="checkbox"/> Other _____	
Name and Address of Operator: Prima Exploration Inc. 7555 E. Hampden Ave., Suite 505, Denver, CO 80231		Telephone 303/755-5681	
Name and Address of Surface Owner: Timothy G & Tracy L. Brown P.O. Box 205, Buffalo, SD 57720			
Name and Address of Drilling Contractor and Rig Number: Undetermined at this time.			
Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available): SE/4 NW/4 Sec 5-T21N-R4E 1977' FNL & 1680' FWL			
If Directional, top of pay and bottom hole location from nearest lines of section: Top of Pay: 8591' BHL(1): 50' FNL & 50' FEL Sec 5-T21N-R4E BHL(2): 1870' FSL & 1100' FEL Sec 6-T21N-R4E			
Acres in Spacing (Drilling) Unit 20,648 acres		Description of Spacing Unit Unitized - South Buffalo Red River Unit Order #4-97	
Well Name and Number Thune Federal #6-5	Elevation 3051' GL	Field and Pool, or Wildcat Buffalo	Proposed Depth and Formation Red River "B" 8591'
Size of Hole 1) 13 3/4" 2) 3) 7 7/8" 4)	Size of Casing 9 5/8" 5 1/2"	Weight per Foot 40# 17#, 15.5#	Depth Surf. Prod.
Cementing Program (amount, type, additives) Depth 120 sx Lite & 425 sx Class G 355 sx Class G			
Describe Proposed Operations (Clearly State all Pertinent Details, and Give Pertinent Dates, Including Estimated Date of Starting any Proposed Work). Use additional page(s) if appropriate. Well laterals will be drilled out of existing 5 1/2" csg by cutting a SE facing window at least 10' below the Gunton porosity located at 8443'-8454', landing in the Red River "B" porosity at 8591'-8600'. Out of this window one lateral will turn to the NE and one to the SW to BHL.			
I hereby certify that the foregoing as to any work or operation performed is a true and correct report of such work or operation.			
Signature 		Name (Print) Rich Gunlikson	
		SOUTH DAKOTA STATE GEOLOGICAL SURVEY Operations Manager WESTERN FIELD OFFICE	
		2/28/05 Date	
FOR OFFICE USE ONLY			
Approved By:		Title: Oil & Gas Supervisor	
Permit No. 1721		API No. 40 063 20123.01	
Conditions, if any, on attached page.		Date Issued: 03/16/05	